RetroSound®

Newport Radio
Installation and Owner's Manual

Made for iPod iPhone

Bluetooth®

AM/FM DIN 1.5 Radio with iPod®/iPhone®, USB MP3/WMA Playback

The information enclosed in this installation manual is to be used as a guide to assist you during the process of installation. This guide does not cover every installation possibility, vehicle, or every aspect of the installation process.

Retro Manufacturing, LLC, RetroSound®, or its subsidiaries, assume no responsibility for any installation. This manual may be updated from time to time.

Please check our website for the latest updates: www.retrosoundusa.com.

NOTES:

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Licensing

"Made for iPod®" and "Made for iPhone®" mean that an electronics accessory has been designed to connect specifically to iPod® or iPhone® respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance. Apple is not responsible for the operation of the device or its compliance with safety and regulatory standards.

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Made for iPod

(Correct function of earlier versions cannot be guaranteed.)

- iPod touch (4th generation): Ver. 5.1.1
- iPod touch (2nd generation): Ver. 4.2.1
- iPod touch (3rd generation): Ver. 5.1
- iPod nano (6th generation): Ver. 1.1
- iPod nano (5th generation): Ver. 1.0.2
- iPod nano (4th generation): Ver. 1.0.4
- iPod nano (3rd generation): Ver. 1.1.3
- iPod classic (160 GB) (Late 2009): Ver. 2.0.4
- iPod classic (120 GB): Ver. 2.0.1
- iPod classic (80 GB, 160 GB): Ver. 1.1.2

Made for iPhone

(Correct function of earlier versions cannot be guaranteed.)

- iPhone 4s: Ver. 5.1.1
- iPhone 4: Ver. 5.1.1
- iPhone 3GS: Ver. 5.1.1
- iPhone 3G: Ver. 4.2.1

For clarity in identifying your model of iPod, please see Apple's document "Identifying iPod models" at http://support.apple.com/kb/HT1353.

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Welcome!

The Newport radio combines classic styling with the advanced features you expect from a modern car stereo.

General Features

- Compatible with iPod® and iPhone®
- Built-in Bluetooth® for hands-free calling and audio streaming
- Plays MP3 and WMA files via front or rear USB inputs
- Dual Green or amber illumination with adjustable High/Low Dimmer
- AM/FM tuner with 30 presets and RDS
- Selectable USA/EU/Japan tuner frequencies
- Built-in amplifier (25 watts RMS/45 watts peak x 4 channel)
- Two sets of RCA low level outputs
- Warranty: 2 Year parts and labor
- DIN 1.5 dash compatibility
- One pair of subwoofer outputs w/ adjustable level and crossover control

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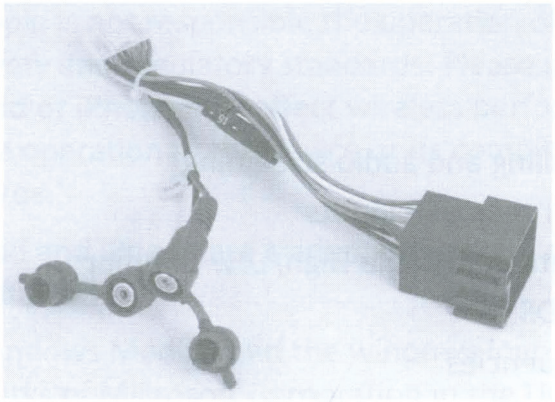
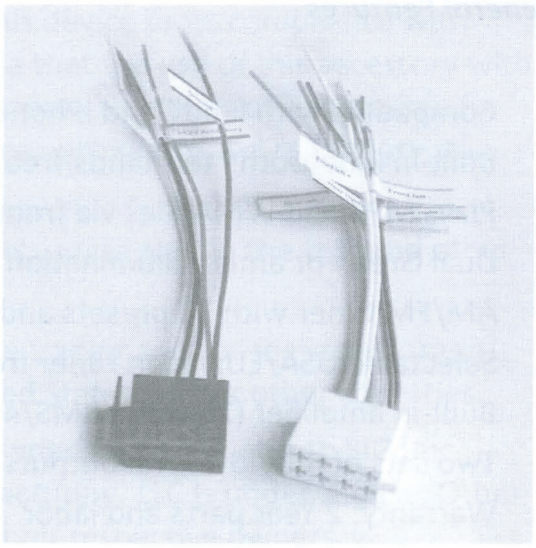
What's in the Box

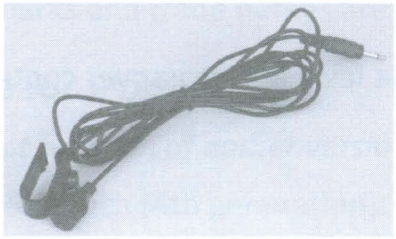
The accessory items and hardware shown below are packaged with your Newport radio.



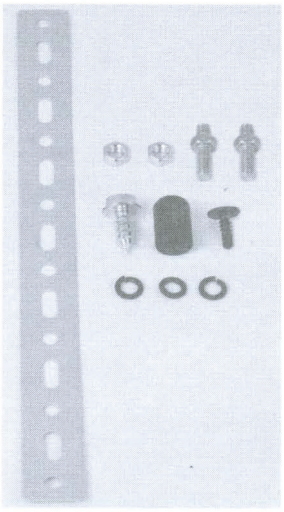
Main Wire Harness
(Plug into back of radio)



Power/Speaker Wire Harnesses
(Plug both into Main Wire Harness)

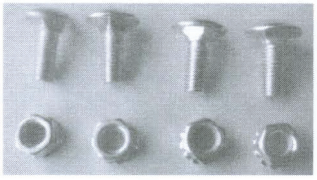


Bluetooth
Microphone



Mounting Backstrap
and Hardware

One fully assembled
newport radio with
knobs



Kit hardware nuts
and bolts

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Warnings and Precautions

This equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and, if not installed and used in accordance with instructions, may cause harmful interference with radio communications. However, there is no guarantee that radio interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to consult the dealer or an experienced radio/TV technician for help. You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

Observe these warnings and precautions when using this unit:

- **Carefully read this manual before using the unit.** If you encounter any problems that are not covered in this manual, please consult the dealer from which you purchased the unit or the dealer nearest you. You may also email us at support@retrosoundusa.com.
- **Do not turn the unit on if the temperature inside the car is very high.** Always allow the unit to cool down before usage.
- **The driver should neither watch the display nor operate the system while driving.** Watching the display or operating the system will distract the driver from driving safely and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before watching the display or operating the system.
- **Use the proper power supply.** This product is designed for operation with a negative ground 12V DC battery system. Never operate this product with other battery systems, especially a 18/24V DC battery or positive ground system.
- **Do not disassemble or modify the unit.** Do not disassemble, modify the unit or attempt to repair the product yourself. If the product needs to be repaired, consult your dealer or Retro Manufacturing directly.
- **Do not use the unit when it is out of order.** If the unit is out of order (no power, no sound) or in an abnormal state (has foreign objects in it, is exposed to water, is smoking, or smells), turn it off immediately and consult your dealer.

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- **Refer fuse replacement to qualified service personnel.** When the fuse blows out, eliminate the cause and have it replaced with the fuse prescribed for this unit by a qualified service technician. Incorrect replacement of the fuse may lead to smoke, fire, and damage to the product.
- **If the unit does not turn on, check the connections first.** Then check whether the fuse in your vehicle's fuse box is blown and check the fuse at the unit's wiring harness.

Observe these warnings and precautions during installation:

- **Do not expose the unit to direct sunlight or excessive heat.** Excessive heat will raise the interior temperature of the unit, which may damage the unit.
- **Do not use the product where it is exposed to water, moisture, or dust.** Exposure of the unit to water, moisture, or dust may lead to smoke, fire, or other damage to the unit and void your warranty. Make sure that the unit does not get wet in car washes or on rainy days.
- **Refer wiring and installation to qualified service personnel.** Installation of this unit requires special skills and experience. For maximum safety, have it installed by your dealer. Retro Manufacturing is not liable for any problems resulting from your installation of the unit. Please be sure to follow our instructions carefully before attempting installation.
- **Follow the instructions to install and wire the product.** Not following the instructions to properly install and wire the product could damage the unit or cause an accident or fire.
- **Disconnect the lead from the negative (–) battery terminal before installation.** Wiring and installation with the negative (–) battery terminal connected may cause electrical shock and injury due to a short circuit. Some cars equipped with an electrical safety system have specific procedures for battery terminal disconnection. FAILURE TO FOLLOW THIS PROCEDURE MAY LEAD TO THE UNINTENDED ACTIVATION OF THE ELECTRICAL SAFETY SYSTEM RESULTING IN DAMAGE TO THE VEHICLE AND PERSONAL INJURY OR DEATH.
- **Take care not to damage the leads.** When wiring, take care not to damage the leads. Prevent them from getting caught in the vehicle chassis, or from being damaged by screws or moving parts, such as seat rails. Do not scratch, pull, bend or twist the leads. Do not run them near heat sources or place heavy objects on them. If leads must be routed around sharp metal edges, protect the leads by winding them with vinyl tape or similar protection.

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- **Use the designated parts and tools for installation.** Use the supplied or designated parts and appropriate tools to install the product. The use of parts other than those supplied or designated may result in internal damage to the unit. Faulty installation may lead to an accident, malfunction or fire.
- **Do not use safety-related vehicle components** Be careful not to wire or affix this product to the following parts of the vehicle: fuel tank, brake, suspension, steering wheel, pedals, airbag, etc.
- **In the case of installation to an airbag-equipped car, confirm warnings and cautions of the vehicle manufacturer before installation.**
- **Check for piping, gasoline tank, electric wiring, and other items before installing the product.** If you need to open a hole in the vehicle chassis to attach or wire the product, first check where the wire harness, gasoline tank, and electric wiring are located. Then open the hole from outside if possible.
- **Never install the product in a location where it interferes with your field of vision.**
- **Never splice into the power cord to supply other equipment with power.**
- **After installation and wiring, you should check the normal operation of other electrical equipment.** The continuation of their use in abnormal conditions may cause fire, electrical shock or a traffic accident.
- **Make sure the leads do not interfere with driving or getting in and out of the vehicle.**
- **Insulate all exposed wires to prevent short circuiting.**
- **Do not operate the unit for a prolonged period with the engine turned off.** Operating the audio system for a long period of time with the engine turned off will drain the battery.

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Installation Warnings

To ensure proper operation of this RetroSound product, please read these instructions carefully before installing and using this equipment.

This owner's manual does not cover all possible installation scenarios. If you feel you can't install this product yourself, please take it to a local car audio professional, or contact us at support@retrosoundusa.com or call 702-483-2222 | 888-325-1555.

IMPORTANT! PLEASE NOTE THAT THIS UNIT REQUIRES +12V TO BOTH THE RED & YELLOW WIRES, OTHERWISE THE UNIT WILL NOT OPERATE. CONTACT US IF YOU HAVE QUESTIONS.

Disconnect the negative (-) battery cable before beginning installation. Verify the battery ground by checking that one wire is connected to the starter mounting bolt or engine block and another to the vehicle chassis using at least #8 gauge wire. Make sure the alternator connections are secure and free from corrosion, rust or dirt.

WARNING! To prevent damage to the unit, do not connect the power connector until you have completed the wiring process. This is a 12 volt negative-ground ONLY radio. If you have a positive ground system, or a 6-volt system, you need to either convert to 12 volts or purchase a separate inverter that would step up the voltage to 12 volts. Please note that the inverter needs to be rated at 8 amps or higher in order for the Newport to operate properly.

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About the Newport

The Newport Radio comes pre-assembled in the box, no assembly of knobs or shafts is needed.

NOTE: Your box may be marked with "GM", "FORD" OR "CHRYSLER" which means you will have a separate plastic installation kit, vehicle specific harness and possibly an antenna adapter (if for some GM vehicles) included. Please note that installation instructions for these kits can be found in those respective GM, Ford or Chrysler kits found in your box. Please contact our support team at: support@retrosoundusa.com for any questions you have.

Final installation shown in a 2000 Dodge Truck

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Wiring Instructions

PLEASE NOTE THAT THIS UNIT REQUIRES +12V TO BOTH THE RED AND YELLOW WIRES, OTHERWISE THE UNIT WILL NOT OPERATE.

CONTACT US IF YOU HAVE QUESTIONS.
support@retrosoundusa.com or 702-483-2222

Wiring Diagram (Figure 9)

Locate the three wire harnesses: Main Wire Harness, Power Wire Harness and Speaker Wire Harness (see "What's in the Box" on page 4). First connect the Main Wire Harness to the back of the radio. Then connect both the Power and Speaker Wire harnesses to the black female plug of the Main Wire Harness(do not connect to power until all connections are completed.

After doing this, connect the bare wire ends of your power and speaker wires to the appropriate power and speaker locations in your vehicle. (see Figure 9, "Wiring Diagram" on page 14) Please contact us if you have questions or have your radio installed by a professional if this part of the install is too difficult.

Installation Notes

- To prevent damage to the unit, do not connect the power connector until you have completed the wiring process.
- This is a 12 volt negative-ground ONLY radio. If you have a positive ground, or a 6-volt system, you need to either convert to 12 volts or purchase a separate inverter that would step up the voltage to 12 volts.
- Please note that the inverter must be rated at 8 amps or higher in order for the radio to operate properly.

Front & Rear AUX Inputs

Two (front & rear) auxiliary inputs alllow you to listen to any portable device with standard headphone outputs. An example of an external source would be a portable CD player, mini disc player, portable cassette recorder, iPod or MP3 player. Select an auxiliary input mode by turning the top top rear knob clockwise until you see AUX IN 1 or AUX IN 2 on the Newport's screen.

USB Extension Cable

Two USB connector inputs are located at the front & rear of the Newport radio. During installation, you must route the rear cable to a convenient and accessible location for plugging in USB devices. If the cable provided is not long enough (40 inches), you may plug in optional USB extensions during installation.

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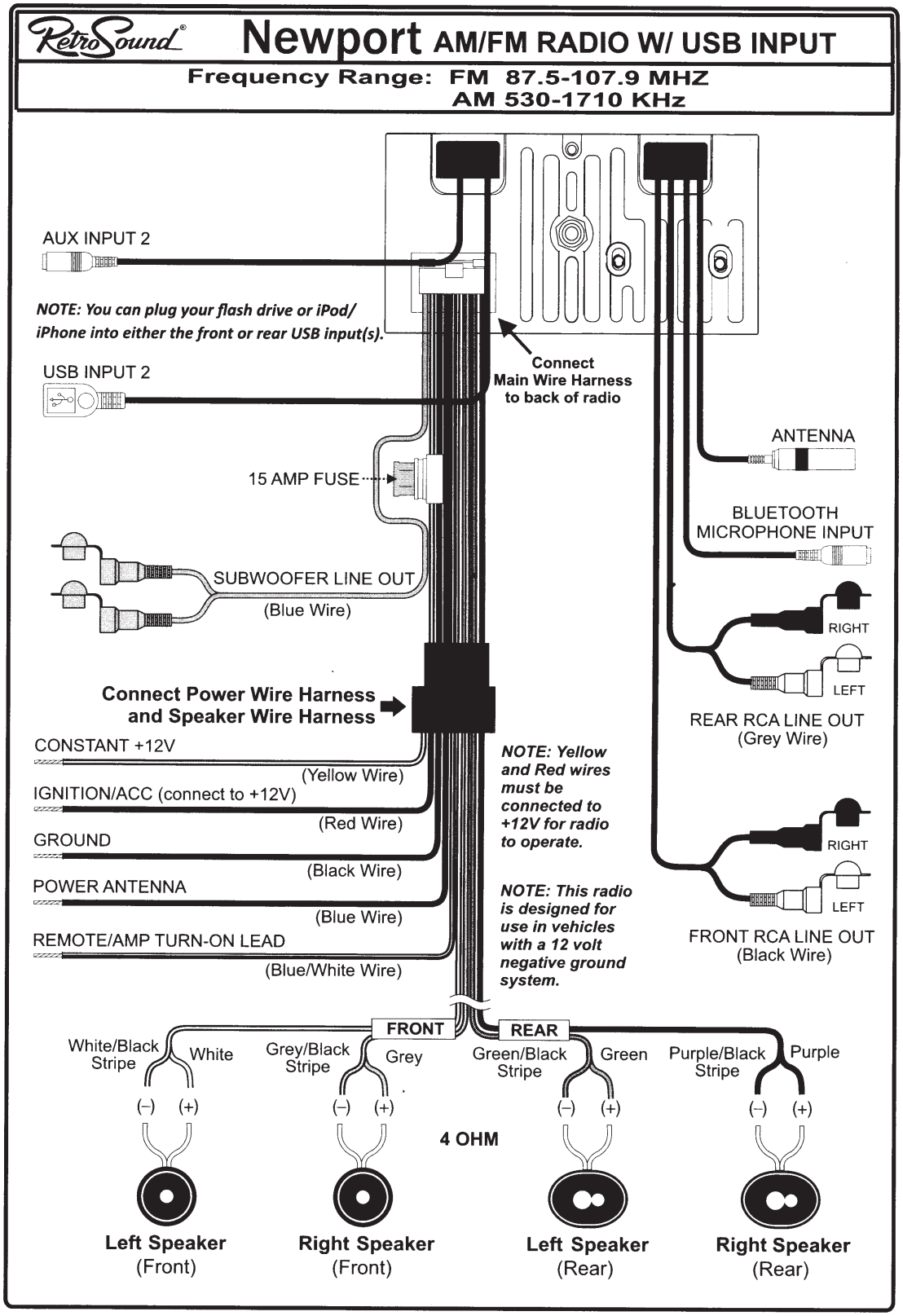

NOTE: Maximum operational distance of a USB cable is 16 feet. For optimum data transfer, we recommend no more than 12 feet of total cable length.

Figure 9 - Wiring Diagram

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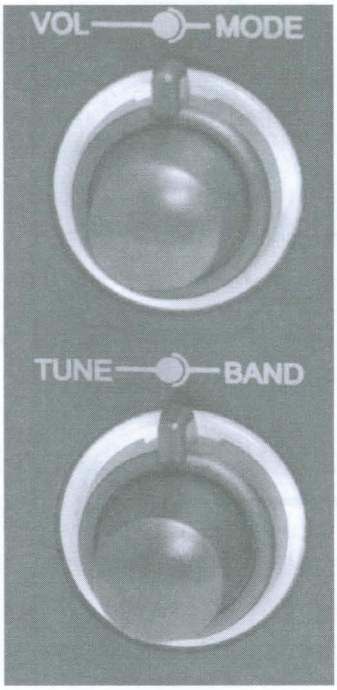
Using Your Radio (Basic Operation)

Front Panel Controls



Note: Both sets of knobs have both front and rear knob functionality. Use the "Operation Table" on page 13 to determine how to use the knobs to acheive the desired response from your Newport radio.

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Using Your Radio (Continued)

Operation Table

Function	#	Radio Mode	USB Mode
Power On/Off	2	Press the top front knob to turn the unit on. Look for RETROSOUND on power up. Press and *hold* the top front knob for 3 seconds to turn the unit off. The LCD display will show GOODBYE for your confirmation.	
Volume	2	Turn the top front knob to adjust the volume attenuation between 0 - 46 (Min/Max). 17 is the default turn-on volume level.	
Audio Adjust	2	Press the top front knob to activate the SEL (Select) function. Press repeatedly to cycle through the DSP (Digital Signal Processing) EQ, Bass, Mid, Treble, Balance, Fader, XBAS, Subwoofer and Subwoofer specific adjustments (when SUB ON is selected). Turn the top front knob to select a value. See "Adjusting Sound Properties" on page 17 for detailed instructions.	
Mode	1	Turn the top rear knob clockwise to select from an available listening source: RADIO, USB-1, USB-2, AUX-1, AUX-2, BT AUDIO. Two sets of AUX inputs are located at the rear of the radio. To utilize these inputs, AUX cables must be routed to an accessible area during installation. See "Wiring Instructions" on page 10. ***NOTE: The USB option will not appear unless media is plugged into the USB connector.***	
Clock On View Song Info/ Clock	1	Turn the top rear knob counter-clockwise to activate the clock on-screen feature.	Turn the top rear knob counter-clockwise to toggle and view artist, album, title information, clock.
Preset 1 Recall/ Store Play/ Pause	5	Press to select the #1 radio preset. Press and *hold* to store preset 1 into memory.	Press to play/pause file playback.

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Using Your Radio (Continued)

Function	#	Radio Mode	USB Mode
Preset 2 Recall/ Store Preview Scan	6	Press to select the #2 radio preset. Press and *hold* to store preset 2 into memory.	Press to play 10 seconds of each track on the flash drive. Press again to cancel the preview scan function. The song name appears as it plays. INT ON appears on the screen during intro scan mode.
Preset 3 Recall/ Store Random	7	Press to select the #3 radio preset. Press and *hold* to store preset 3 into memory.	Press and hold to randomly play all digital tracks in the current folder on your flash drive. Press and release to activate SHUFFLE ALL OR SHUFFLE OFF function(s).
Preset 4 Recall/ Store Select Folder	8	Press to select the #4 radio preset. Press and *hold* to store preset 4 into memory.	Press to move UP through folders on your drive. The first file in the selected folder will play. The screen will display DIR 001, DIR 002, etc.
Preset 5 Recall/ Store Select Folder	9	Press to select the #5 radio preset. Press and *hold* to store preset 5 into memory.	Press to move DOWN through folders on your drive. The first file in the selected folder will play. The screen will display DIR 001, DIR 002, etc.
Next/ Previous	3	Turn the bottom front knob to tune to the next or previous AM/FM frequency. Note: When the radio is tuned into a strong station (in FM only), the FM indicator will show on the upper bottom side of the LCD display (2 oval circles). This indicator will only light up in FM mode and ONLY when a strong station is selected.	Turn the bottom front knob to change to the next/previous track. *This function also applies to Bluetooth audio mode.*

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Using Your Radio (Continued)

Function	#	Radio Mode	USB Mode
System Menu	3	Press and *hold* the bottom front knob for 3 seconds to access the sub-menu system where you can adjust: Auto/Manual tuning, RDS, Clock or Frequency Priority, Beep ON/OFF, AREA USA/EU/Japan/AUS/RUS tuning, Local/DX (distant) tuning, Vol Adjust/Vol Last and volume default level. Toggle the selection by turning the bottom front knob and pressing the bottom front knob to go to the next mode. See "Sub-Menu System" on page 21 for detailed instructions. *Press and release the bottom front knob to activate the MUTE function.*	
Preset 6 Recall/ Store Repeat Play	4	Turn the bottom rear knob clockwise to select the #6 radio preset. Turn and *hold* the bottom rear knob clockwise to store preset 6 into memory.	Turn and release the bottom rear knob clockwise to repeat the current track (RPT TRK) or repeat all tracks (RPT ALL). Turn and *hold, then release* the bottom rear knob clockwise to repeat the playback of songs in that folder (RPT FLD).
Band Track/ Directory Search	4	Turn the bottom rear knob counter-clockwise to toggle through 5 radio bands (2 AM and 3 FM). Note: When tuning to a stereo FM station, a stereo indicator (two ovals) will show in the upper bottom side of the radio's LCD screen. If there is no stereo icon seen, the station is in mono.	Turn the bottom rear knob counter-clockwise once to select "FOLDER" search mode, turn the front bottom knob clockwise or counter-clockwise to select folders (directories) on the usb drive. Press and release the front bottom knob to select the folder, the first song in that directory will be heard. Turning the bottom rear knob counter-clockwise twice will select the "MUSIC" search mode. Turn the front bottom knob clockwise or counter-clockwise to select songs within that selected folder. Press and release the front bottom knob to select the desired song within the folder.

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Using Your Radio (Continued)

Function	#	Radio Mode	USB Mode
iPod/ iPhone Playlist/ Search	4		While in USB-1/USB-2 mode with an **iPod/ iPhone** connected to one of the USB inputs, turn the bottom rear knob counter-clockwise to select the PLAYLIST. Turn the front bottom knob clockwise to choose from PLAYLIST, ARTIST, ALBUM, GENRE, SONGS, COMPOSER, AUDIO BOOK or PODCAST. Press and release the front bottom knob to access one of the selected items, then turn clockwise to select items within the list. Press and release the front bottom knob again to listen to the selected item. To repeat the song or songs on the album, turn the bottom rear knob clockwise to select Repeat one or Repeat all.

See "Bluetooth Instructions" on page 27 for specific instructions for using a connected Bluetooth device with the Newport.

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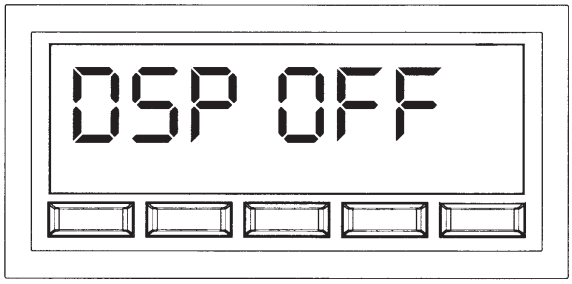
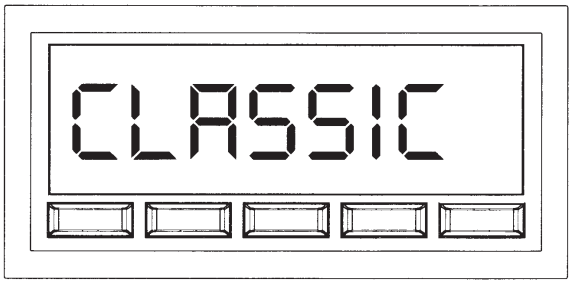
Adjusting Sound Properties

Adjusting the sound properties:

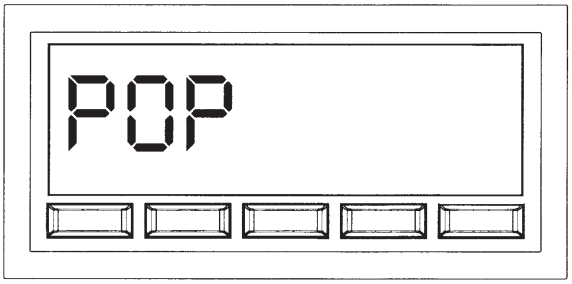
1. Press the top front knob, then release, to access the sound properties menu.
2. Repeatedly press and release the front top knob to scroll through the available menu options.
3. Turn the top front knob bottom or top to select a value for the chosen menu option.
4. Press and release the top front knob repeatedly to move to the next function desired, or do nothing and the menu will revert to the current source display.



DSP OFF
When you first access the top front knob menu, DSP is set to OFF. Turn the top front knob bottom to view and select the 3 preset equalizer options.



CLASSIC
The CLASSIC setting offers sonic adjustments that lend themselves to classical music.



POP
The POP setting accentuates the bass and treble settings. This is suitable for bass heavy popular music.

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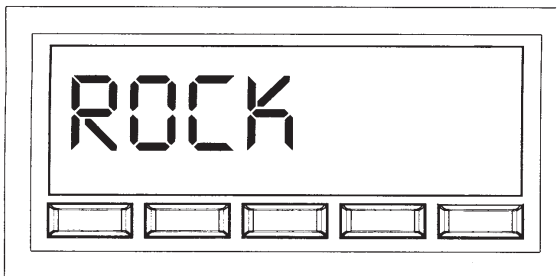
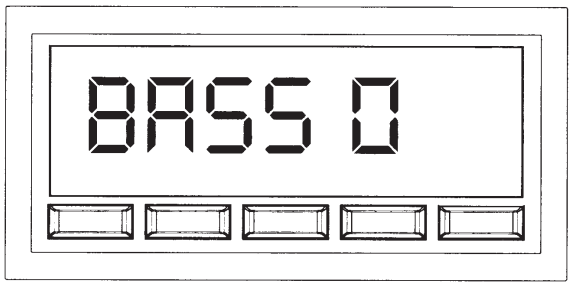
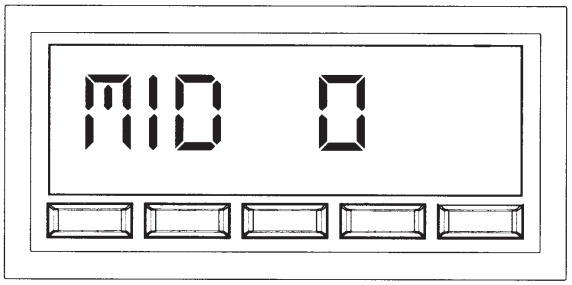
Adjusting Sound Properties (continued)



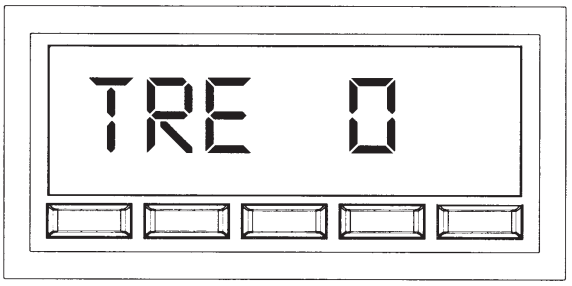
ROCK
The ROCK setting accentuates the treble settings. This is suitable for rock music.



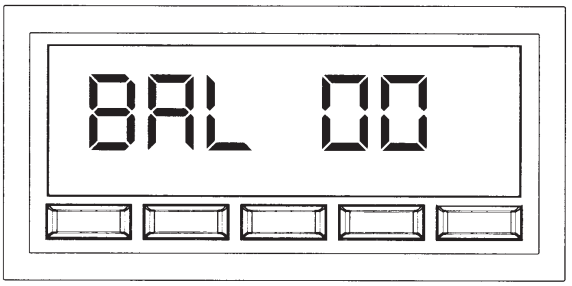
BASS
The bass adjustment function allows you to boost or cut the low frequencies from -7 to +7.



MID
The mid-range adjustment function allows you to adjust the middle frequencies -7 to +7.



TREBLE
The treble adjustment function allows you to boost or cut the high frequencies from -7 to +7.



BALANCE
The balance adjustment function allows you to adjust or pan the stereo sound from the top or bottom. This is helpful to compensate for the position of the driver in relation to the speakers. Adjustment range is 0-12 between the top and bottom speakers.

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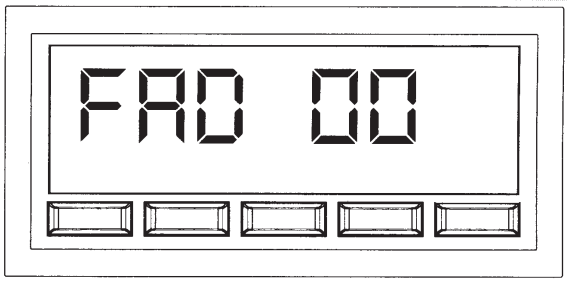
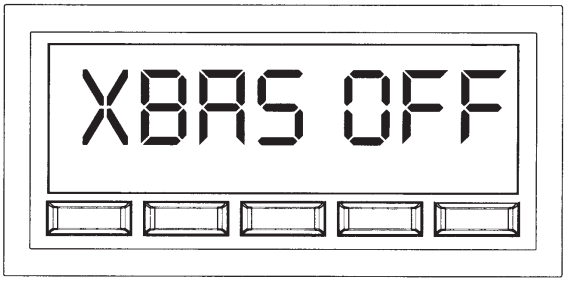
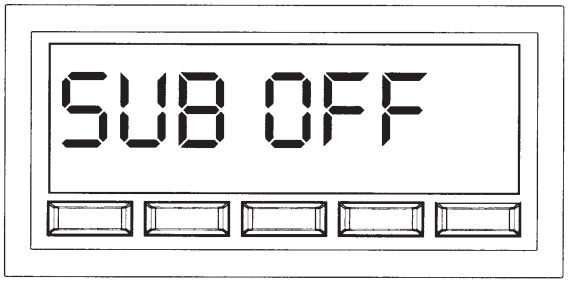
Adjusting Sound Properties (continued)



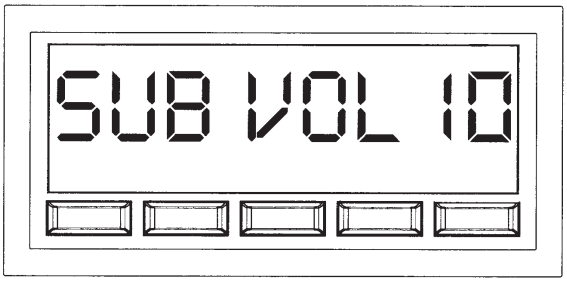
FADER
The fader control allows you to fade the sound from the front pair of speakers to the rear pair of speakers. Adjustment range is 0-12 between front and rear speakers.



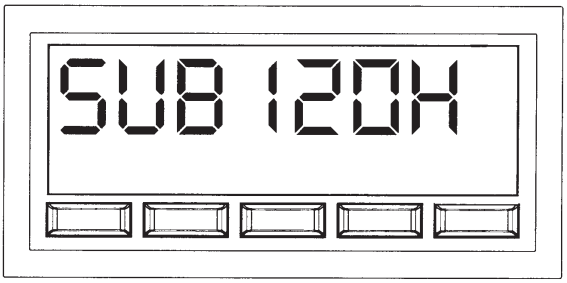
XBAS
This function boosts bass and treble at low listening volume and should be turned off at higher volumes. You will know this function is active when you see "XBAS" on your display. Adjusting your Bass, Mid or Treble settings will override the XBAS function.



SUB ON/OFF
Turn the subwoofer RCA output ON to activate this feature.



SUB VOL
When SUB ON is selected and a subwoofer is attached to the unit, use this function to increase or decrease the volume level of the subwoofer outputs from 0-12.



SUB
When SUB ON is selected and a subwoofer is attached to the unit, use this function to adjust the subwoofer crossover point to 80HZ, 120HZ or 160HZ.

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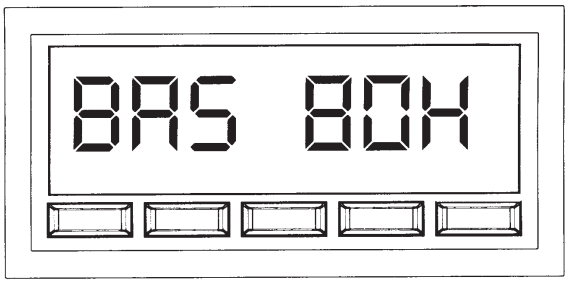
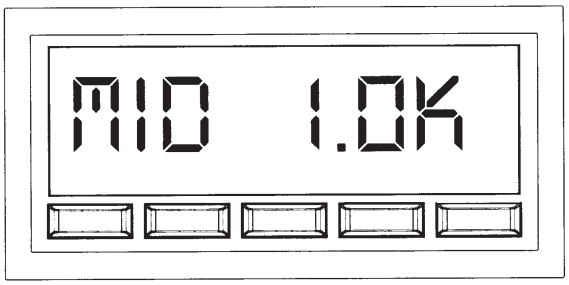
Adjusting Sound Properties (continued)



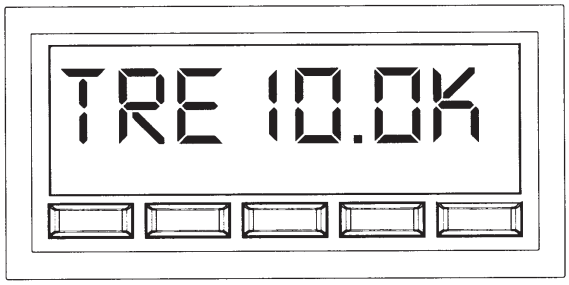
BAS

Use this function to make a more detailed boost or cut adjustment of bass (low) frequencies as follows: 60/80/100/200Hz. This is a very useful mode for making very specific tonal adjustments. When selecting one of these 60/80/100/200Hz points, any changes to the prior BAS menu settings on page 21 (-7 to +7) will boost or cut at the selected frequency setting chosen in this menu.



MID

Use this function to make a more detailed boost or cut adjustment of midrange (vocal) frequencies as follows: 0.5K/1.0K/1.5K/2.5KHz. Default setting is 1.0KHz. This is a very useful mode for making very specific tonal adjustments. When selecting one of these 0.5K/1.0K/1.5K/2.5KHz points, any changes to the prior MID menu settings on page 21 (-7 to +7) will boost or cut at the selected frequency setting chosen in this menu.



TRE

Use this function to make a detailed boost or cut adjustment of treble frequencies as follows: 10.0K/12.5K/15.0K/17.5KHz. Default setting is 10.0KHz. When selecting one of these 10.0K/12.5K/15.0K/17.5KHz points, any changes to the prior TRE menu settings on page 21 (-7 to +7) will boost or cut at the selected frequency setting chosen in this menu. This is a very useful mode for making very specific tonal adjustments.

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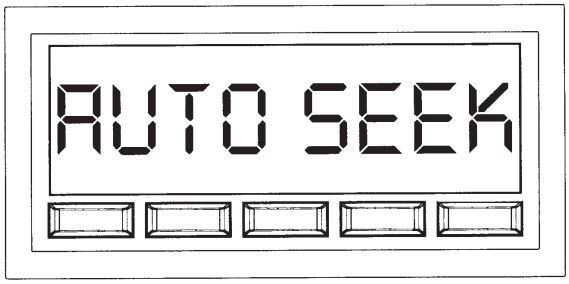
Sub-Menu System (Bottom Front Knob)

Accessing the sub-menu system menu:

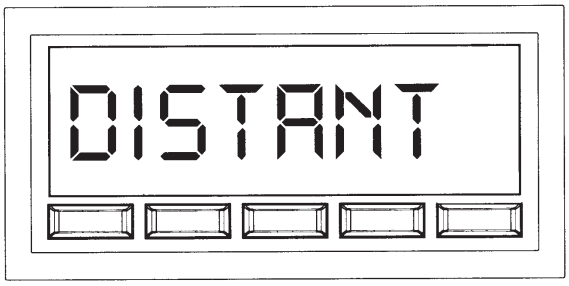
1. Press and *hold* the bottom front knob for 3 seconds, then release, to access the sub-menu system.
2. Repeatedly press and release the bottom front knob to scroll through the available menu options.
3. Turn the bottom front knob clockwise or counter-clockwise to select a value for the chosen menu option.
4. Press and release the bottom front knob repeatedly to move to the next function desired, or do nothing and the menu will revert to the current source display.

Sub-Menu Options



AUTO SEEK
This function allows you to select auto seek tuning or manual tuning when you turn the bottom front knob to the bottom or top when listening to the radio. The factory default setting is AUTO SEEK. Turn the bottom front knob clockwise or counter-clockwise to select manual or auto.

A STORE
This function will automatically fill FM presets on all 3 banks of 6 FM presets with the strongest stations. Push the TOP front knob to activate this feature. You will see "STORE" show up on the screen. This process can take up to one minute.



LOCAL/DISTANT
When listening to the FM tuner, you can access the LOCAL or DISTANT (default) option. Selecting between the local and distant settings can aid in listening to weak FM radio stations or compensate for stations that have too strong of a signal.

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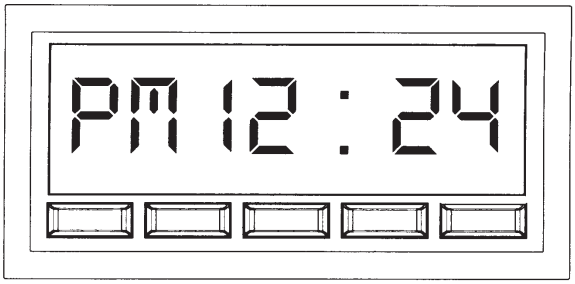
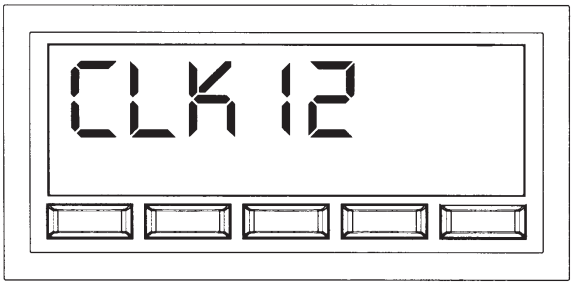
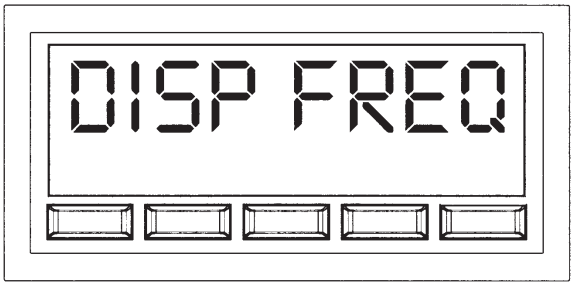
Sub-Menu System (continued)



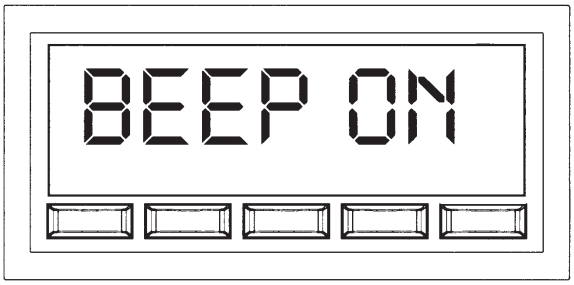
CLOCK
Choose the clock function to adjust the clock hours and minutes. Adjusting past 12 will toggle the AM/PM indication. Pressing the front bottom knob after adjusting the time will take you to the CLK 12/24 menu.



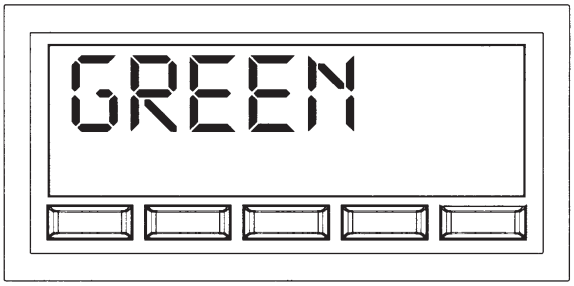
CLK 12/24
Adjust this function to choose between the 12 and 24 hour clock mode. The factory default setting is CLK 12.



DISP FREQ/CLK
The unit default setting displays frequency on the screen. Select DISP CLK to show the clock as the priority screen view. Turn bottom front knob either clockwise or counter-clockwise to select DISP CLK or DISP FREQ.



BEEP ON/OFF
This function controls the audible beep confirmation that sounds during radio operation. With the beep function displayed, turn the bottom front-knob to select BEEP ON or BEEP OFF.



GREEN
Select the desired color preset (Green or Amber). By default, the LCD lighting defaults as GREEN.

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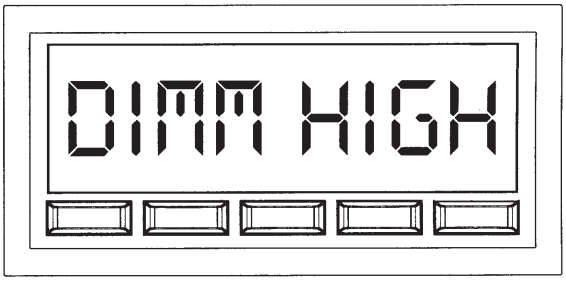
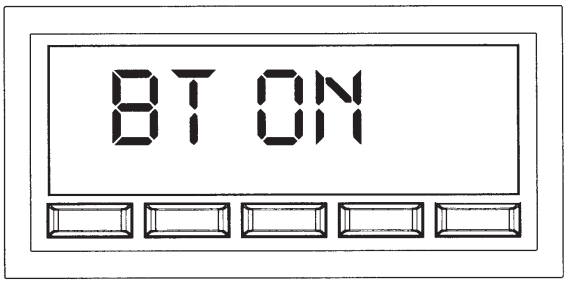
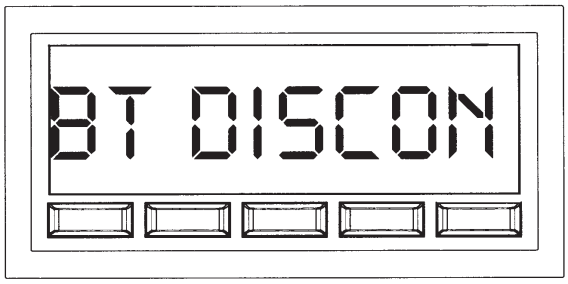
Sub-Menu System (continued)



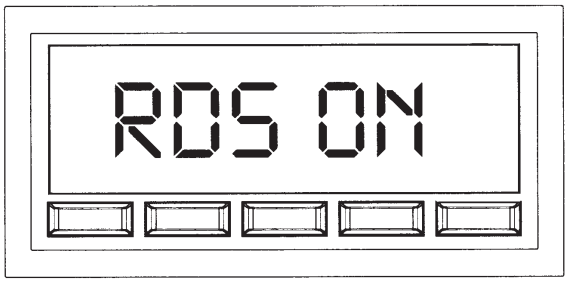
DIMMER
Use this menu option to switch the LCD bbottomness between high (DIMMER HIGH) and low (DIMMER LOW) Turn the bottom front knob clockwise or counter-clockwise to make your selection.



BT
Adjust this feature to turn the Bluetooth function ON/OFF. Turn the bottom front knob clockwise or counter- clockwise to make your selection.



BT DISCON/CONNEC
Turn the bottom front knob clockwise to select "CONNEC" to enable the Bluetooth function and search for "RETROSOUND" in your phone's Bluetooth device list. Enter password (0000) if prompted. Turn counter-clockwise to select "DISCON" and disconnect a Bluetooth device.



RDS ON/OFF
RDS stands for Radio Data System. This function allows you to turn off the RDS function if you do not want to see the RDS information. The factory default setting is RDS ON.

RDS tuners can automatically tune in stations according to the style of music (or talk) they broadcast. Some RDS tuners can even break in with traffic alerts or emergency broadcasts.

RDS enables your receiver to display text messages (usually call letters and format info) that many FM stations include on a subcarrier signal within their normal broadcast signal.

The RDS function is always active, and if the FM station you are listening to is broadcasting RDS information, the radio station call letters, song info, artist info and other messages will appear. **Please note that not all FM stations use RDS nor will all RDS functions work in the US.**

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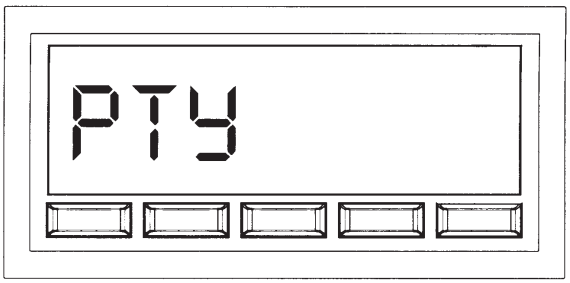
Sub-Menu System (continued)



PROGRAM TYPE (PTY)
RDS has a function called PTY (Program Type). **Note: This mode works in** AREA EUR **only**. This coding of up to 31 pre-defined program types allow you to find similar programming by genre.

When using this function, you can select the desired station genre from the list below to find stations with the same programming genre in this area.

Once the program type has been selected, the tuner will search all available FM stations for a station broadcasting the selected program category.

To search for your desired Program Type:

1. **Make sure that the tuner is in "AREA EUR".** When you see PTY on-screen, press and release the top front knob, then turn the bottom front knob clockwise or counter-clockwise to select from the Program Type list.

2. Press and release the bottom front knob to select the desired Program Type.

3. Once the desired Program Type is selected, you will see PTY SEEK show on-screen, this indicates that the radio is searching the entire FM band for radio stations with the selected Program Type. After making the selection, the radio will find the strongest stations with the selected program type, if none are found, you will see NONE FOUND on-screen and the unit will revert back to the last radio station selected.

Program Type list (in order of appearance when selecting them).

NEWS, AFFAIRS, INFO, SPORT, EDUCATE, DRAMA, CULTURE, SCIENCE, VARIED, POP, ROCK, EASY, LIGHT, CLASSICS, OTHER, WEATHER, FINANCE, CHILDREN, SOCIAL, RELIGION, PHONE IN, TRAVEL, LEISURE, JAZZ, COUNTRY, NATION, OLDIES, FOLK, DOCUMENT, A-TEST, ALARM.

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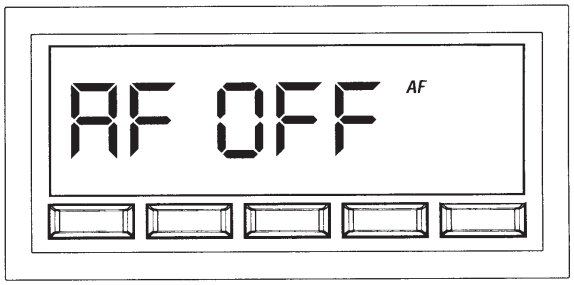
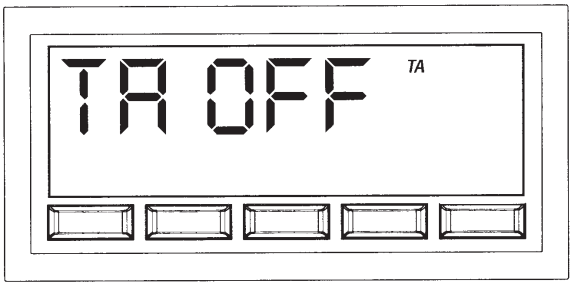
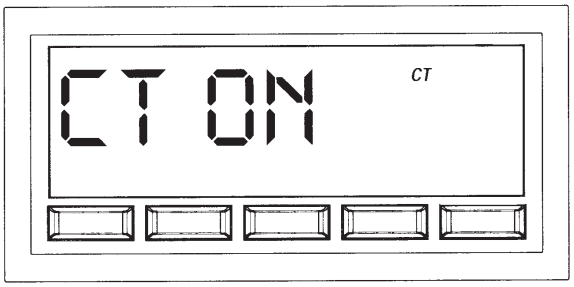
Sub-Menu System (continued)



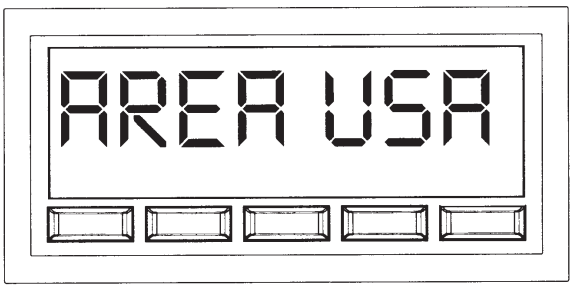
AF ON/OFF
When the RDS AF function is active (AF will blink on-screen), and the station supports this mode, the unit will search for the next strongest station when the one you're listening to gets weak (FM only).



TA ON/OFF
Adjust to turn the Traffic Announcement (if supported by the station) function on/off. The RDS TA function allows FM stations to broadcast traffic announcements that scroll across the screen and will also broadcast audible traffic alerts to your radio. (TA will blink on-screen when activated)



CT ON/OFF
If supported by the station, adjust to turn the CT (Clock Time) function on/off. This feature can synchronize the clock with the radio station's clock.



AREA (USA/EUR/AUS/JAP/RUS)
The Newport radio has the capability to receive AM/FM broadcast frequencies in other countries. To modify the default setting, AREA USA (default), turn the bottom front knob.

To confirm the change, let the sub-menu revert to your tuner. You will see your selected mode: AREA USA, AREA EUR, AREA AUS, AREA JAP or AREA RUS show on-screen.

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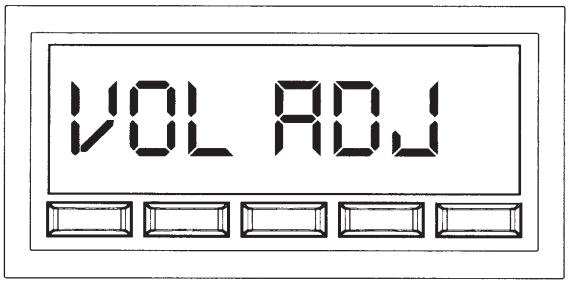
Sub-Menu System (continued)



VOL ADJUST/LAST

Factory default for this menu option is VOL LAST, which maintains the last volume the radio was at when you turned it off. When you select VOL ADJ, you can set the default turn-on volume at any level (AD VAL 00-46), regardless of what the volume level was when you last turned off the unit.

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Bluetooth Instructions

Bluetooth Hands-Free and A2DP Streaming Operation

You can make or receive phone calls using a Bluetooth enabled phone connected to the Newport, controlling basic functions via the radio interface. During a call, the radio music source will be muted and the call broadcast through your car speaker system. You can also listen to music stored on a A2DP enabled Bluetooth device.

Pairing a Bluetooth Device

When connecting a Bluetooth device for the first time, you must first pair the device with the unit.

For most devices, pairing only needs to be done once.

Please follow these steps:

1. Make sure the BT (Bluetooth) function is turned "ON" in the radio Sub-Menu. See "Sub-Menu System" on page 21.
2. Change the "BT DISCON" function to "BT CONNEC".
3. Ensure Bluetooth is enabled on the phone to be connected to the unit.
4. Search for a new Bluetooth device from the phone (this may take up to 30 seconds).
5. Select "RETROSOUND" from the Bluetooth device list.
6. Some devices may require you to enter a PIN. If prompted, enter "0000" for the PIN.
7. "PAIRING OK" will be displayed on the LCD display if pairing is successful. The paired device will then connect to the Newport automatically.

On some phones, you may need to select "SET AS AUTHORIZED" or similar to ensure the Newport will automatically pair on subsequent usage.

PAIRED NOTIFICATION DISPLAY: When the Bluetooth device is paired with the Newport, the Bluetooth icon will appear on the LCD display. This should occur whenever you use the system while the paired device is in range.

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Bluetooth (continued)

Making a Call

1. Dial the desired number on the paired mobile phone.
2. Once dialing is in progress, "CALLING" will be displayed on the LCD.
3. When the call is in progress, "TALK" will be displayed on the LCD, along with the elapsed call time (TALK 00:00).

Receiving a Call

1. If a call comes in, audio playback from the current source will either be muted or paused (depending on the source) and "PHONE IN" will be shown on the display, along with the Caller ID, if it is enabled by the phone/carrier.
2. Turn the top rear knob counter-clockwise to accept the call.

Ending a Call

To end the call, turn the top rear knob counter-clockwise to end the call.

NOTE: Regarding placement of the included Bluetooth microphone, we suggest mounting the microphone on the sun visor, A-pillar or steering column inside the vehicle, closest to the driver. The microphone is very sensitive and you may speak at a normal volume when using hands-free operation.

Streaming music from your device

The Newport radio is capable of wireless music playback using the built in Bluetooth technology. Once your device is paired with the radio, you may stream music by selecting your desired playback source on your device and starting the application (ex: Pandora, Slacker) or by selecting music stored on your device. Make sure that the Newport radio is in BT AUDIO mode (See "Operation Table" on Page 13) to check how to switch to this source mode. Please note that Bluetooth wireless technology has a maximum range of 30 feet from the radio. **Some devices may allow our radio the ability to skip songs/ tracks/selections via the bottom front shaft knob.**

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USB Device Instructions

Attaching a USB Device

USB 1 and USB 2 inputs are located at the front & rear of the Newport radio. During installation, you may route the rear USB cable to a convenient and accessible location for plugging in USB devices or USB extension devices.

Once you've turned on the Newport and connected your flash drive to the USB input, the radio will find your songs and automatically begin playing them from any mode.

The USB icon appears on the LCD during USB playback.

To change songs, turn the bottom front knob to the bottom or top to access the next or previous song. Please note that the preset buttons on the front of the radio's control face will allow you to play/pause, listen to 10 seconds of each song (INT) or repeat the track you're listening to (RPT) or randomly select from all songs on the attached thumb/flash drive (RDM).

NOTE: The unit MUST be in USB mode for it to read the USB files on your flash/thumb drive. See "Operation Table" on page 13.

About MP3/WMA Files

MP3 (MPEG Audio Layer-3) and WMA (Windows Media Audio) is a format for compressed audio files. When the Newport radio is in USB mode (USB 1 or USB 2), you can play MP3 and unprotected (no DRM) WMA files off the flash drive.

Common facts about these compressed-sound formats:

- High bit rate and high sampling frequencies are recommended for high sound quality.
- Selecting VBR (Variable Bit Rate) is not recommended because playing time is not displayed properly and there may be some audible skipping artifacts. The playback sound quality differs depending on the encoding circumstances. For details, refer to the user manual of your own encoding software.
- When adding MP3 files to your flash drive, it is recommended to set the bit rate to "128 kbps or more" and "fixed".
- When adding WMA files to your flash drive, it is recommended to set the bit rate to "64 kbps or more" and "fixed". Do not set the copy protect attribute on the WMA file or you will not be able to play the track.

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USB Device Instructions (continued)

- The Newport will read only FAT or FAT32 formatted flash drives. This radio will NOT read NTFS formatted drives.
- The Newport will read files placed in the root directory first before playing files in the folder structure of the drive. Please note that files are read in order of creation NOT alphabetically or numerically. Older files will get read first in a folder.

Caution! Except for private use, duplicating audio data (including MP3/WMA) or distributing, transferring or copying it, whether free or paid for without permission of the original copybottom holder is strictly prohibited by the Copybottom Act and international treaty.

Viewing MP3/WMA Song Information

When playing MP3/WMA files from the USB source, the Newport allows you to view the track name, album, artist info (ID-3) information automatically from these files. Once the USB drive is inserted, the following info will scroll across the screen in the following order: F-DIR (folder directory), MP3 FILE (file name of song), ALBUM (name of album) ARTIST (name of artist), SONG (name of song).

NOTE: To access the clock when in USB mode, repeatedly turn the top rear knob counter-clockwise to activate the clock on screen feature. The clock will display until you turn the top rear knob counter-clockwise again or leave it alone and it will revert to viewing the ID-3 information on-screen.

USB Playback Mode

The preset buttons on the front of the radio's control face (1-5) will allow you to play/pause, listen to 10 seconds of each song (INT), repeat the track you're listening to (RPT), randomly select from all songs from a USB thumb/flash drive (RDM), and navigate folders. See "Operation Table" on page 13

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Troubleshooting

Problem	Possible Cause	Action to Solve Problem
Radio will not turn on (no lights, no sound)	12 volt Batt+ wire not connected or incorrect voltage	Check all connections for proper voltage with a volt meter. Voltage range: 12-15 volts
	+12 volt accessory wire not connected or incorrect voltage	Check +12 volt accessory wire connection
	Ground wire not connected	Check ground connection
	Fuse on Batt+ is blown	Replace blown fuse
No sound heard from unit but unit lights up	Volume turned all the way down	Increase radio volume
	Internal amp in protection mode	Check speaker leads for any grounded or shorted wires
	Make sure the unit is in the desired source mode (AUX,BT Audio, etc)	Check to make sure that unit is in desired source mode
Unit blows fuses	Possible short in wiring	Incorrect fuse used, make sure only fuses with correct 15 amp ratings are used / Check all wiring connections for possible short
	Battery hooked up backwards	Make sure battery is properly connected
USB ERR	Invalid media/device type	Please review page 29 to learn which formats and devices are acceptable for playback in this unit

System Reset

To restore/reset the unit to factory defaults, remove all power from the unit, wait 2 minutes and then reconnect power.

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Frequently Asked Questions

Do your radios work on 6 volt systems or on positive ground systems?

No. Our radios are 12 volt, negative ground only. After-market converters and inverters are available, but must have at least 8 amps of continuous output.

I have your radio and am having problems getting it to turn on.

RetroSound radios require 12 volts to both power leads. The red lead (+12V accessory) goes to a switched power source, and the yellow to constant 12 volt (+12 V) power source. Using a volt meter, check the voltage when the key is turned from "off" to "on". If there is a significant drop in the voltage, the circuit to which you have the yellow lead attached cannot handle the additional draw of the radio. You will need to find another circuit that can handle the additional draw of the radio, or you will need to go directly to the battery.

What speaker wire do you recommend I use?

We recommend using 16 or 18 gauge wire for the speakers. If it is a longer run, we recommend using 16 gauge only.

I have all 4 speakers connected to your radio and the display is lit up like it is working, but there's no sound coming out.

This usually indicates one of two things:

1. Speaker wires touching each other or the vehicle chassis at some point. Check each speaker lead from radio to speaker.
2. Speaker impedance below 4 Ohms. Older speakers are usually not compatible with modern electronics.

My car originally came with a switch to control my automatic antenna. Can I use the RetroSound radio's remote antenna wire to do this?

No you cannot, your factory antenna is known as "semi-automatic." It requires a switch to either extend or retract the antenna. You must retain this switch to control your antenna; the RetroSound radio's power antenna wire is for more modern "fully-automatic" antennas not requiring a separate switch.

The sound output is all mid-range, with very little bass and a strangled-sounding upper range. What is wrong?

One of your speaker wires is connected backwards. This is called being "out of phase." Check to make sure positive is wired to positive and negative to negative on all your speakers.

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Frequently Asked Questions (continued)

I have your radio with an amp connected, but hear a whining/buzzing sound through the speakers when I step on the accelerator.

If you have an external amplifier installed and experience a high-pitched noise that varies with the engine's RPM, there are many possible solutions:

1. Make sure the amplifier's gain controls are not turned all the way up. Amplifiers amplify everything, including noise.
2. Make sure to run the amplifier's low level input cables (RCA's) separately from the amplifier's power wire.
3. Try grounding the amplifier near where it is installed.
4. A low level (RCA) noise filter, known as a "ground loop isolator," is often effective at removing engine or alternator noise.
5. Try a filter on the amplifier's 12 volt power lead. Make sure to use a filter that includes a ground wire.
6. On rare occasions, noise can be introduced through the antenna lead. If disconnecting the antenna makes the noise go away, you need to replace or repair the antenna plug where it goes into the radio.

When I plug in my flash drive, the screen says "USB ERR" and it won't play the files I placed on the drive.

1. Make sure the files on the drive are .mp3 or unprotected .wma (Windows Media Audio) files. iTunes files are .m4a format and need to be converted to .mp3 format, which can easily be done using iTunes.
2. Verify the capacity of the flash drive. The Newport will play 1 gig up to 32 gig size flash drives.
3. Make sure the flash drive is not NTFS formatted. Always use the FAT32 format (most drives are formatted with FAT32 from the factory). Be sure to do a full format rather than a quick format, and check that none of the files or folders have names longer than 64 characters. It is very important that none of the audio files have DRM. Use only MP3 files or unprotected Windows Media format files.

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specifications

FM

Tuning Range (EU and US Tuning Capable) with RDS 87.5-107.9MHz
Antenna Terminal ..... External Antenna Connector
Usable Sensitivity ..... 12.5 dBf
Selectivity ..... 75 dB @ 400kHz
Signal to Noise Ratio ..... 62 dB (Stereo), 67 dB (Mono)
Harmonic Distortion @ 1 kHz ..... 0.8% (stereo), 0.5% (monaural)
Separation ..... 32 dB @ 1kHz
Frequency Response ..... 30-16,000 Hz

AM (EU and US Tuning Capable)

Tuning Range ..... 530-1710 kHz
Antenna Terminal ..... External Antenna Connector

General

Dimensions (Radio Face Only) ..... 8.10"W x 3.61" H x 1.29"D
Dimensions (Radio Body) ..... 3.96"W x 1.98"H x 4.30"D
Power Requirements 10.5-14.4V
Current Consumption (during operation) ..... Max. 15A
Current Consumption (car off) ..... <3.5 mA
Output Power (@ 14.4V @ 4 ohm @ 1% THD) ..... 25x4w RMS 45x4 Max Power
Output Impedance 4-8ohm
Low Level Output (4 Channels) 2.85V
AUX 1 Input (Front panel) ..... ≥300 mV / 6 kΩ
AUX 2 Input (Aux cable length, 8") ..... ≥300 mV / 6 kΩ
USB 1 Input (Front panel ..... 5V (USB Female Input)
USB 2 Input (rear, USB cable length, 40") ..... 5V (USB Female Input)

NOTE: All specifications are subject to change without notice.

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Limited Warranty

If your product does not work properly because of defects in materials and workmanship RetroSound, a division of Retro Manufacturing, LLC (collectively referred to as "the warrantor") will, for the length of the period indicated in the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or refurbished product. The decision to repair or replace will be made by the warrantor.

CATEGORIES	PARTS	LABOR
Newport Radio	Two (2) Years	Two (2) Years

During the "Labor" warranty period, there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry in or mail in your product prepaid during the warranty period. If batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States, Alaska, Hawaii or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

To handle a warranty issue, contact us at support@retrosoundusa.com or 702-483-2222 and get a Return Authorization number. All returns and warranty issues must receive a Return Authorization (RA) number. Any product received without a RA number will be refused.

Retro Manufacturing, LLC
Phone: 702-483-2222
Fax: 702-483-2229

LIMITED WARRANTY-LIMITS AND EXCLUSIONS

This warranty ONLY COVERS failures due to defects in materials and workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred during shipment, failures which are caused by products not supplied by the warrantor, failures which result from accident, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustment, maladjustment of consumer control, improper maintenance, improper antenna, inadequate signal reception or pickup, power line surge, improper voltage supply, lightning, modification, commercial use (such as use in hotels, offices, restaurants, or other business uses) or rental use of the product, or service by anyone other than the technician from the factory service center or other authorized service centers, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the sevicer, and loss of media, data or other memory contents. The items listed are not exclusive, but are for illustration only.) ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you. This warranty gives you specific legal bottoms and you may also have other bottoms which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or service center.

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Modern Sound for your Classic

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Important: Read This Information Before Proceeding!

If you have any problems with this product, please contact us FIRST before you return this item.

You may reach us either by email or telephone for assistance.

Email: support@retrosoundusa.com

Phone: 888-325-1555

Website(s):

retrosoundusa.com or retrobeltusa.com

Thank you for purchasing a Retro Manufacturing product